TAURUS CHANNEL 130 x 150 WITH D400 CAST IRON GRATING

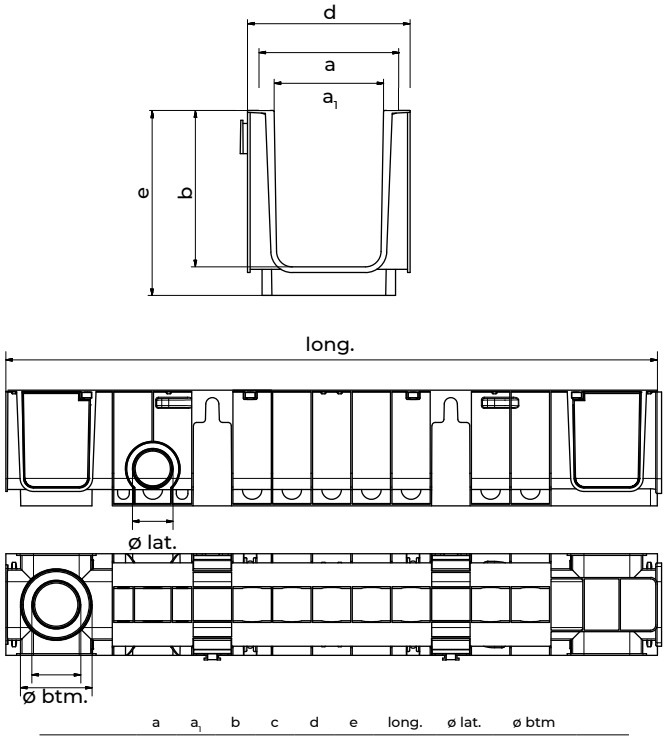
INDEX

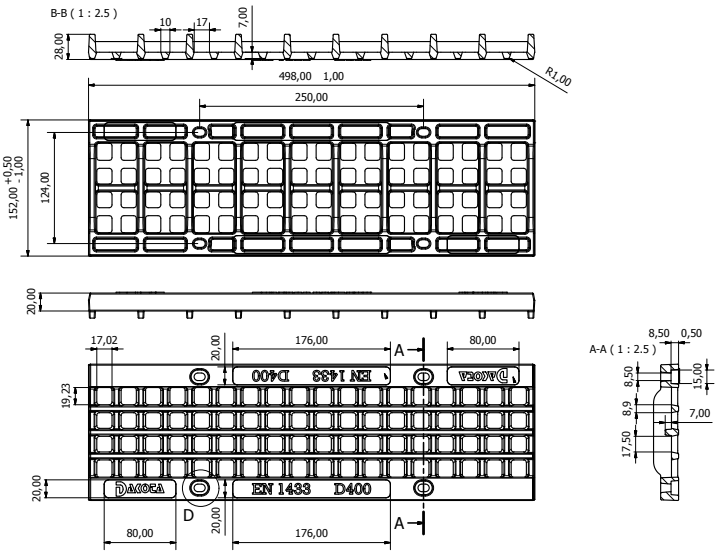
1. CODE REGISTRY

Code	Description	Dimensions (mm)	Weight	Colour	Pkg. / Pallet
POZ92-1315PGD	Taurus 130/150 with D400 Cast Iron Grating	130 x 150 x 1.000	14,70 kg/pc.	Black	1 pc. / 35 pc.

MATERIAL Made of HDPE (High Density Polyethylene) and D400 Cast Iron Grating.

CERTIFICATION The item is compliant to EU regulation UNI 1433.





	a	a_1	b	c	d	e	long.	ø lat.	ø btm	
POZ92-1315P	130	105	150	-	152	178	1.000	63	75/110	mm

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2. CERTIFICATION

CE
EN 1433

3. USE

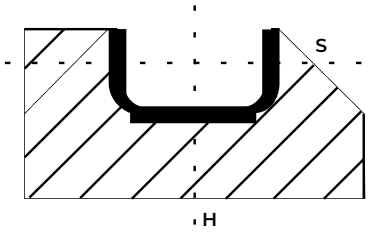
Used for the collection and drainage of rainwater and for the discharge of liquids for industrial use.
It can be combined with a wide range of gratings in order to be used in pedestrian areas, driveways, roads, highways, ports and airports.

INSTALLATION

A. Design of excavation
The depth of the excavation depends on the type and dimension of the chosen channel, plus the height of the layer of concrete on the bottom.
At this stage we must also take into consideration the eventual passage of outlet pipes vertical and/or horizontal, and the presence of any catch basin for the collection of waste.
The channel must be laid down starting from the lowest point or discharge.

B. Concrete Base
A concrete layer must be laid down on the laying surface, keeping in consideration any slope for water drainage.
The concrete that will be used for the base and the shoulders of the channel must have S4 fluidity properties, to enable the filling of all the cavities on the outside of the channel. For this reason it must be used aggregates of stones with a maximum diameter of 15 mm must be used.
Please note that Dakota channels are not self-supporting, but they become it after the proper positioning and cast of the concrete.

Classification	A15	B125	C250	D400	E600	F900
Minimum Concrete Height H	100 mm	100 mm	150 mm	200 mm	200 mm	250 mm
Minimum Concrete Thickness S	100 mm	100 mm	150 mm	200 mm	200 mm	250 mm
Minimum Compression Resistance R_{ck}	25 N/mm²	30 N/mm²	30 N/mm²	30 N/mm²	35 N/mm²	37 N/mm²



C. Installing the channel
Always install Dakota channels starting from the point of water discharge (downstream), by connecting the output to the sewerage system or, if present, to the oil separator for the treatment of the first rain. The terminal plug must be inserted on the edge of the channel, and the channels must be installed from downstream to upstream, using the joints on the channels' edges. Than the upstream channel will be cut to achieve the desired length. Arrange then discharges required, install the anchoring profiles on the cast iron profile (when needed), and fill the shoulder of the channel with concrete up to the maximum level.
During this phase is extremely important to install the grating before the concrete infill, to avoid potential damages due to the pressure exerted by the concrete.
Always protect the gratings with a film to avoid any cleaning after the concrete has been cast. For the best water-tightness, it's also possible to utilize a bitumen-based sealant (SHELL TIXOPHALTE, for instance) during the connection one channel on anothers.

D. Final Coating
When laying down the final coating, make sure that the final pavement is between 3 and 5 mm above the upper edge of the channel or the upper surface of the grating.
Remove then the protective film and fix the gratings to the channel.

5. GALVANIZED ITEMS AND PROFILES: WARNINGS FOR USE AND INSTALLATION

All carbon steel items and profiles in the DAKOTA catalog undergo galvanization, i.e., a zinc coating on the materials (called zinc plating), aimed at protecting them from oxidation.

However, the product's life cycle does not end with production, but continues with its use in different environments and applications, with its final placement in flooring and structures exposed to various potential critical issues that can significantly damage the protective zinc coating, leading to the appearance of rust. These are some of the most frequent critical conditions:

- The installation of DAKOTA galvanized steel products involves the use of concrete, adhesives, fillers, cementitious mortars, etc., depending on the applicator and end use.
- Once installed, DAKOTA galvanized steel products may come into contact with products of various chemical compositions used to clean surfaces and adjacent joints.
- The places where they are installed may have different levels and situations of high environmental corrosiveness.

Laboratory tests have led to the conclusion that both installation and cleaning products with a pH lower than 6 or higher than 11 can compromise the zinc coating and trigger the oxidation process of the steel, leading to deterioration and ultimately the destruction of the item.

It is therefore essential that:

- Both the installer and the end user must thoroughly check the technical specifications of the manufacturer of the adhesive and/or cleaning products to be used in advance.
- The installer must protect galvanized steel parts to prevent them from coming into contact with adhesives and/or sealants and/or cleaning products that could damage them.
- The designer, installer, maintenance technician, and end user must be aware of the need to use stainless steel items as an alternative to galvanized steel in places where environmental corrosion is high.

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6. FLOW RATE AND LOAD CLASS

	CHANNELS	Slope 1,00 %	Slope 2,00 %	Slope 3,00 %	LOAD CLASS accorfing to EN: UNI 1433 A15	B125	C250	D400	E600	F900
		Flow rate (liter sec.)								
TAURUS	Taurus 130/40	4,27	6,04	7,40	●	●	●			
	Taurus 130/75	9,47	13,39	16,40	●	●	●			
	Taurus 130/150	21,31	30,13	36,90	●	●	●	●		
	Taurus 200/40	6,86	9,70	11,88	●	●	●	●	●	●
	Taurus 200/75	16,13	22,81	27,93	●	●	●	●	●	●
	Taurus 200/150	38,38	54,28	66,47	●	●	●	●	●	●
	Taurus 260/75	21,47	30,37	37,20	●	●	●	●	●	●
	Taurus 260/150	52,23	73,87	90,47	●	●	●	●	●	●
	Taurus 370/300	203,85	288,29	353,08			●	●	●	●
PEGASUS+	Pegasus Plus One S 100/35	1,93	2,73	3,35	●					
	Pegasus Short 130/40	2,81	3,98	4,87	●					
	Pegasus Short 130/75	6,04	8,54	10,46	●					
	Pegasus Short 130/140	16,26	23,00	28,17	●					
	Pegasus Plus 130/75	5,75	8,13	9,95	●	●	●			
	Pegasus Plus 130/120	11,78	16,66	20,40	●	●	●			
	Pegasus Short 200/145	35,85	50,70	62,10	●					
	Pegasus Short 200/165	36,67	51,86	63,51	●					

Class A15 = 15 kN load test = 1,5 tons
Group 1: Areas that can be used only by pedestrians and cyclists.

Class B125 = 125 kN load test = 12,5 tons
Group 2: Pedestrian paths, pedestrian areas and comparable areas, parking for private cars or multilevel car parks.

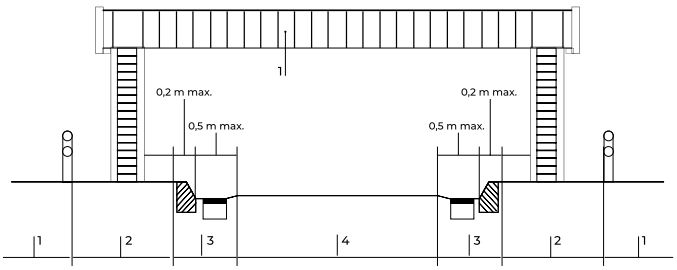
Class C250 = 250 kN load test = 25 tons
Group 3: Road curbs and areas not directly exposed to vehicle traffic or similar; elements of the curb are always included in Group 3.

Class D400 = 400 kN load test = 40 tons
Group 4: Roads with heavy traffic (including pedestrian streets), docks and parking areas for all types of road vehicles.

Class E600 = 600 kN load test = 60 tons
Group 5: Areas subjected to extremely heavy vehicles traffic, for example roads and docks in ports.

Class F900 = 900 kN load test = 90 tons
Group 6: Areas subjected to loads from large wheels, for example flooring airports.

LOAD CLASSES ACCORDING TO THE EN 1433 STANDARD



7. TECHNICAL SPECIFICATION

Specification	Description	Unity	Price
Dak.D.POZ92.1315PGD	Supply and installation of drainage channel named Taurus, made of PE-HD with sti ening external ribbing and coupling system between channels with joint male/female that allows the assembly between one channel and the consecutive one with the gratings assembled on the channel. The channel must have two preset side outlet points and the predisposition on the bottom for a possible outlet. The channel surface will have to be perfectly smooth and with low roughness coeficient to allow the maximum water flowing, the channel will also have to be watertight and without connection points with the external. There must be 3 connections point on the internal face of the channel in order to guarantee the gratings blocking. Dimensions 130 x 150 - water passage 150 x 105 - with D400 Cast Iron Grating.....	pc.	-